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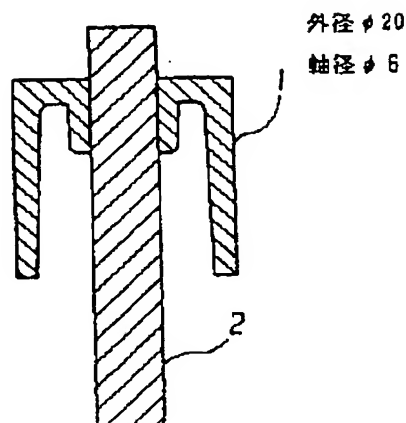
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APPLICANT : KAWASAKI STEEL CORP;

INVENTOR : ABE MASAHARU;

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TITLE : PERMANENT MAGNET ROTOR FOR
MOTOR



ABSTRACT : PURPOSE: To prevent crack in the vicinity of a junction boundary between a plastic material and a shaft section by forming a rotary shaft of polyimide resin.

CONSTITUTION: Nylon 12 is selected as resin for plastic magnet, ferrite magnetic powder and silane coupling agent are added, and mixed by a Henschel mixer. Here, the mixing amounts of the resin and the agent are 37vol.% and 0.3wt.% to the ferrite magnetic powder. Further, the mixture is kneaded by a biaxial kneader, and pelletized. Then, pellets are injection molded in a mold having 8 or 20mm of outer diameter by an injection molding machine. Thus, crack occurrence rate of a rotor is reduced.

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